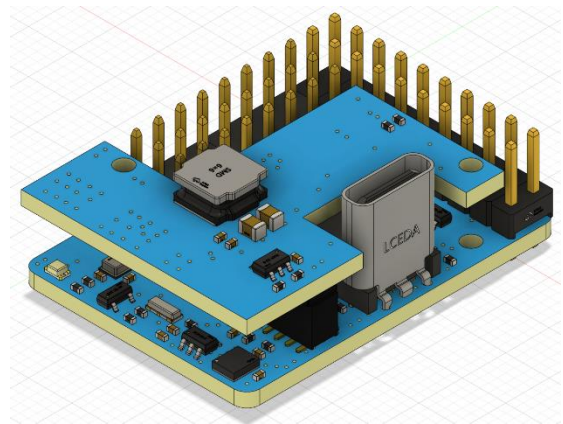


# F411-NTE

## FC Specifications

- MCU: 100MHz STM32F411CEU6
- IMU: BMI270 (SPI)
- Baro: SPL06-001 (I2C)
- OSD: AT7456E (SPI)
- Blackbox: No
- 2x Uarts
- 2x Full Softserial
- 6x PWM outputs (2x Motors, 4x Servos)
- 1x I2C
- 2x ADC (VBAT, Current)
- 2x LEDs for FC STATUS (Blue, Red)
- BEEP
- 1x RGB LED (WS2812)
- Built in inverter on UART2-RX for SBUS input
- PPM receiver: not supported



## Power

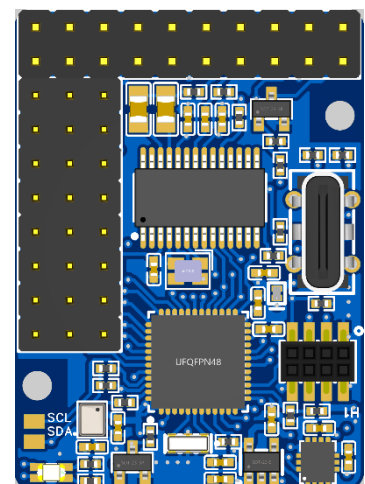
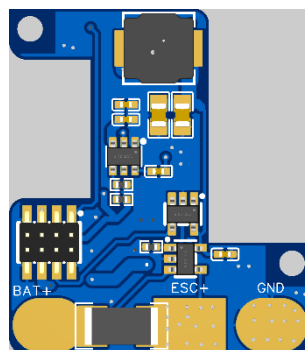
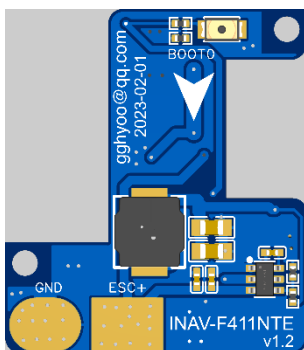
- 6~28V DC IN (2~6S LiPo)
- 50A Current Sense
- BEC 5V 3A for FC & Peripherals
- BEC 5V 3A for servos
- Vbat for VTX and camera
- LDO 3.3V 500mA
- Battery Voltage Sensor: 1k:10k

## FC Firmware

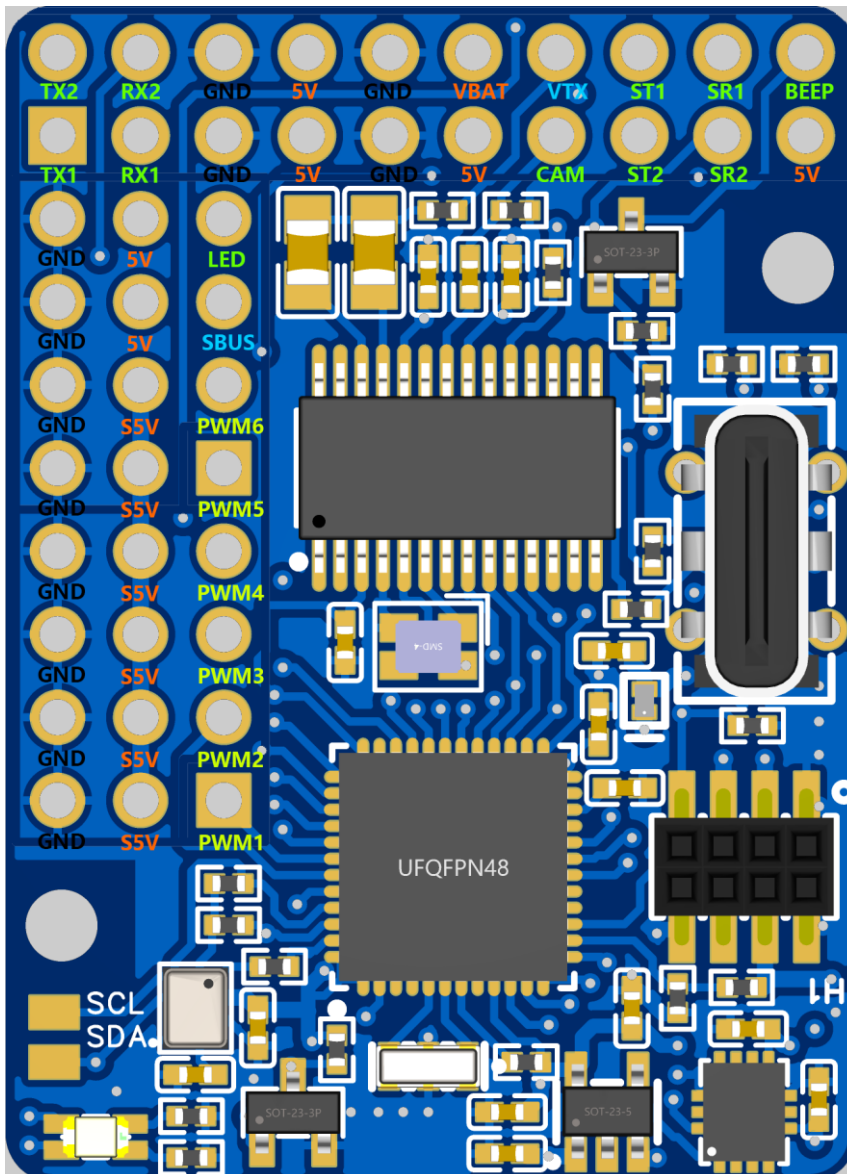
- INAV Target: MATEKF411NTE ( INAV4.1 or newer, Use private FW)

## Physical

- Dimensions: 36 x 26 x 12 mm
- Weight: 10g



## Signals



**5V:** BEC 5V. Max. 3A

**S5V:** BED 5V. Max. 3A

**VBAT:** Battery voltage

**GND:** Power Ground

**TX2/RX2:** Uart2-TX / RX

**SBUS:** RX2 with inversion for SBUS input

**TX1/RX1:** Uart1-TX / RX

**SCL/SDA:** I2C bus for OLED, AirSpeed, Compass.

**ST1/SR1:** Softserial1\_Tx/Rx

**ST2/SR2:** Softserial2\_Tx/Rx

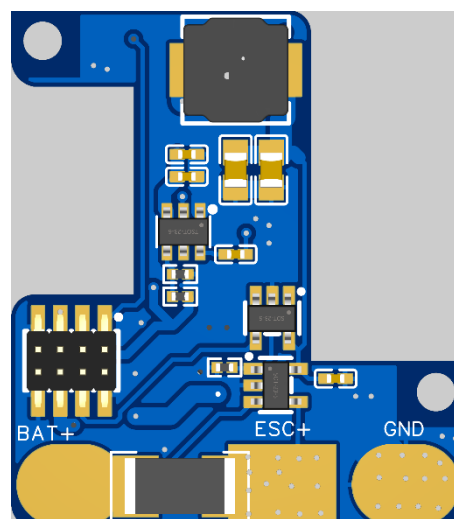
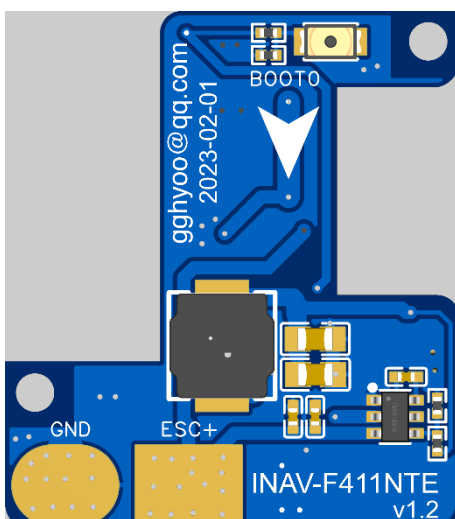
\*\*\* Support GPS, DJI/AVATA/SA/TR VTX

**VTX:** Video out for video transmitter

**CAM:** Camera video IN

**LED:** WS2812 single output

**BEEP:** General active 5V buzzer



**Button:** DFU mode button

**BAT+:** Battery input +

**ESC+:** ESC input +

**GND:** Battery & ESC Ground